

IN THE CLAIMS:

Please amend Claims 1, 2, 7 to 12, 17 to 22, 27 to 32 and 37 to 40 as shown below. The claims, as pending in the subject application, now read as follows:

1. (Currently amended) An information processing apparatus which segments a surface of a sheet into a plurality of areas and controls layout of print data in the respective segmented areas, comprising:

print setting means for making a print setting;

input means for inputting data of a plurality of sets from an application, one set comprising of upper and lower surfaces;

determination means for determining whether a surface to be be ~~be~~ [[an]] imposition processed ~~process~~ is an upper or lower surface;

page order setting means for setting page orders on the upper and lower surfaces ~~of the one set~~, which match each other, determined by said determination means when the sheet is segmented into the plurality of areas in accordance with the determination result; and

imposition process means for performing an imposition process on the basis of the set page orders.

2. (Currently amended) The apparatus according to claim 1, wherein said determination means automatically determines the upper or lower surface by either a format in which all the data of lower surfaces is outputted after all the data of upper surfaces is outputted, or a format in which data of upper or lower surface of a set is alternately outputted, which is designated from the application in 2 sided printing.

3. (Original) The apparatus according to claim 1, wherein
said print setting means has designation means for allowing a user to
designate processing for the upper or lower surface, and
said determination means performs determination on the basis of user
designation by said designation means.

4. (Original) The apparatus according to claim 3, wherein said designation
means performs designation through an interface that allows designation of an upper or
lower surface without mediacy of a GUI.

5. (Original) The apparatus according to claim 1, wherein when a layout that
is always uniquely determined by a specific type of sheet is to be made, and the specific
type of sheet is designated, a print setting GUI is controlled so as not to make any setting
that influences the layout.

6. (Original) The apparatus according to claim 1, further comprising security
processing means for performing security processing and charging upon designation of the
specific type of sheet.

7. (Currently amended) The apparatus according to claim 5 or 6 [[1]],
wherein the specific type of sheet is a four postcard sheet having postcards arranged in a
2 x 2 matrix.

8. (Currently amended) The apparatus according to any one of claims claim 1 to 7, wherein

said print setting means can designate that part of a sheet has already been used, and

said page order setting means makes a setting to set only remaining areas as layout targets on the basis of information of the used area designated by said print setting means.

9. (Currently amended) The apparatus according to claim 8, wherein said page order setting means sets remaining areas of the [[a]] first sheet as layout targets by using information of a used area designated by said print setting means, and sets all areas of the [[a]] second and subsequent sheets as layout targets.

10. (Currently amended) The apparatus according to any one of claims claim 1 to 9, further comprising spool means for, before generating print data to be transmitted to a printer, temporarily storing the print data in an intermediate code form of a data form different from a data form of the print data, despool means for generating the print data to be transmitted to the printer from the data temporarily stored in the intermediate code form, and means for generating a control command to the printer.

11. (Currently amended) A print control method for an information processing apparatus which segments a surface of a sheet into a plurality of areas and controls layout of print data in the respective segmented areas, comprising:

the print setting step of making a print setting;

the input step of inputting data of a plurality of sets from an application, one set comprising of upper and lower surfaces;

the determination step of determining whether a surface to be [[an]]
imposition processed process is an upper or lower surface;

the page order setting step of setting page orders on the upper and lower surfaces of the one set, which match each other, determined in the determination step when the sheet is segmented into the plurality of areas in accordance with the determination result; and

the imposition process step of performing an imposition process on the basis of the set page orders.

12. (Currently amended) The method according to claim 11, wherein in the determination step, the upper or lower surface is automatically determined by either a format in which all the data of lower surfaces is outputted after all the data of upper surfaces is outputted, or a format in which data of upper or lower surface of a set is alternately outputted, which is designated from the application in 2 sided printing.

13. (Original) The method according to claim 11, wherein
the print setting step has the designation step of allowing a user to designate processing for the upper or lower surface, and
in the determination step, determination is performed on the basis of user designation in the designation step.

14. (Original) The method according to claim 13, wherein in the designation step, designation is performed through an interface that allows designation of an upper or lower surface without mediacy of a GUI.

15. (Original) The method according to claim 11, wherein when a layout that is always uniquely determined by a specific type of sheet is to be made, and the specific type of sheet is designated, a print setting GUI is controlled so as not to make any setting that influences the layout.

16. (Original) The method according to claim 11, further comprising the security processing step of performing security processing and charging upon designation of the specific type of sheet.

17. (Original) The method according to claim 15 or 16 [[11]], wherein the specific type of sheet is a four postcard sheet having postcards arranged in a 2 x 2 matrix.

18. (Currently amended) The method according to any one of claims 11 to 17, wherein

in the print setting step, it can be designated that part of a sheet has already been used, and

in the page order setting step, a setting is made to set only remaining areas as layout targets on the basis of information of the used area designated in the print setting step.

19. (Currently amended) The method according to claim 18, wherein in the page order setting step, remaining areas of the ~~[[a]]~~ first sheet are set as layout targets by using information of a used area designated in the print setting step, and all areas of the ~~[[a]]~~ second and subsequent sheets are set as layout targets.

20. (Currently amended) The method according to any one of claims ~~claim~~ 11 to 19, further comprising the spool step of, before generating print data to be transmitted to a printer, temporarily storing the print data in an intermediate code form of a data form different from a data form of the print data, the despool step of generating the print data to be transmitted to the printer from the data temporarily stored in the intermediate code form, and the step of generating a control command to the printer.

21. (Currently amended) A computer readable storage medium storing a program for a print control method for an information processing apparatus which segments a surface of a sheet into a plurality of areas and controls layout of print data in the respective segmented areas, the program including:

a module for generating a control command to a printer;

a print setting module for making a print setting;

an input module for inputting data of a plurality of sets from an application,
one set comprising of upper and lower surfaces;

a determination module for determining whether a surface to be ~~[[an]]~~
imposition processed ~~process~~ is an upper or lower surface;

a page order setting module for setting page orders on the upper and lower surfaces of the one set, which match each other, determined by said determination module when the sheet is segmented into the plurality of areas in accordance with the determination result; and

an imposition process module for performing an imposition process on the basis of the set page orders.

22. (Currently amended) The medium according to claim 21, wherein the determination module automatically determines the upper or lower surface by either a format in which all the data of lower surfaces is outputted after all the data of upper surfaces is outputted, or a format in which data of upper or lower surface of a set is alternately outputted, which is designated from the application in 2 sided printing.

23. (Original) The medium according to claim 21, wherein
the print setting module has a designation module for allowing a user to designate processing for the upper or lower surface, and
the determination module determines on the basis of user designation by the designation module.

24. (Original) The medium according to claim 23, wherein the designation module performs designation through an interface that allows designation of an upper or lower surface without mediacy of a GUI.

25. (Original) The medium according to claim 21, wherein when a layout that is always uniquely determined by a specific type of sheet is to be made, and the specific type of sheet is designated, a print setting GUI is controlled so as not to make any setting that influences the layout.

26. (Original) The medium according to claim 21, further comprising a security processing module for performing security processing and charging upon designation of the specific type of sheet.

27. (Original) The medium according to claim 25 or 26 ~~[[21]]~~, wherein the specific type of sheet is a four postcard sheet having postcards arranged in a 2 x 2 matrix.

28. (Currently amended) The medium according to any one of claims claim 21 to 27, wherein

the print setting module can designate that part of a sheet has already been used, and

the page order setting module makes a setting to set only remaining areas as layout targets on the basis of information of the used area designated by the print setting module.

29. (Currently amended) The medium according to claim 28, wherein the page order setting module sets remaining areas of the ~~[[a]]~~ first sheet as layout targets by using information of a used area designated by the print setting module, and sets all areas of the ~~[[a]]~~ second and subsequent sheets as layout targets.

30. (Currently amended) The medium according to any one of claims claim 21 to 29, further comprising:

a spool module for, before generating print data to be transmitted to a printer, temporarily storing the print data in an intermediate code form of a data form different from a data form of the print data; and

a despool module for generating the print data to be transmitted to the printer from the data temporarily stored in the intermediate code form.

31. (Currently amended) A program for a print control program for an information processing apparatus which segments a surface of a sheet into a plurality of areas and controls layout of print data in the respective segmented areas, the program causing a computer to execute

the step of generating a control command to a printer;

the print setting step of making a print setting;

the input step of inputting data of a plurality of sets from an application, one set comprising of upper and lower surfaces;

the determination step of determining whether a surface to be ~~[[an]]~~ imposition processed process is an upper or lower surface;

the page order setting step of setting page orders on the upper and lower surfaces of the one set, which match each other, determined in the determination step when the sheet is segmented into the plurality of areas in accordance with the determination result; and

the imposition process step of performing an imposition process on the basis of the set page orders.

32. (Currently amended) The program according to claim 31, wherein in the determination step, the upper or lower surface is automatically determined by either a format in which all the data of lower surfaces is outputted after all the data of upper surfaces is outputted, or a format in which data of upper or lower surface of a set is alternately outputted, which is designated from the application in 2 sided printing.

33. (Original) The program according to claim 31, wherein
the print setting step has the designation step of allowing a user to designate processing for the upper or lower surface, and
in the determination step, determination is performed on the basis of user designation in the designation step.

34. (Original) The program according to claim 33, wherein in the designation step, designation is performed through an interface that allows designation of an upper or lower surface without mediacy of a GUI.

35. (Original) The program according to claim 31, wherein when a layout that is always uniquely determined by a specific type of sheet is to be made, and the specific type of sheet is designated, a print setting GUI is controlled so as not to make any setting that influences the layout.

36. (Original) The program according to claim 31, further comprising the security processing step of performing security processing and charging upon designation of the specific type of sheet.

37. (Currently amended) The program according to claim 35 or 36 ~~[[31]]~~, wherein the specific type of sheet is a four postcard sheet having postcards arranged in a 2 x 2 matrix.

38. (Currently amended) The program according to any one of claims claim 31 to 37, wherein

in the print setting step, it can be designated that part of a sheet has already been used, and

in the page order setting step, a setting is made to set only remaining areas as layout targets on the basis of information of the used area designated in the print setting step.

39. (Currently amended) The program according to claim 38, wherein in the page order setting step, remaining areas of the ~~[[a]]~~ first sheet are set as layout targets by using information of a used area designated in the print setting step, and all areas of the ~~[[a]]~~ the second and subsequent sheets are set as layout targets.

40. (Currently amended) The program according to any one of claims claim 31 to 39, wherein the program further causes the computer to execute

the spool step of, before generating print data to be transmitted to a printer, temporarily storing the print data in an intermediate code form of a data form different from a data form of the print data, and

the despool step of generating the print data to be transmitted to the printer from the data temporarily stored in the intermediate code form.